# AUC De Bai

# JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DEPUTY CLASSICAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

CHEMION AND OIL & GAS ADMINISTRATION

# PIT REMEDIATION AND CLOSURE REPORT

Operator: CONOCO, INC.		(505)324-58	84
Address: 3315 Bloomfield Hwy., Farmington			
Facility or Well Name: JICARLA BR E	#10		
Location: Unit or Qtr/Qtr Sec E Sec 18 T250			
Pit Type: Separator X Dehydrator Other			
Danu Type			
Pit Location: Pit dimensions: length 13  (Attach diagram)  Reference: wellhead X , ot Footage from reference:	her		
Direction from reference: 48	Degrees East of	North South <u>×</u>	
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	0
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	<u>٥</u>
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) ( 0 points)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes No	( 0 points)	<u> </u>
Distance To SurfaceWater:  (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) ( 0 points)	<u> </u>
R	ANKING SCORE (TOTAL	POINTS):	<b>∂</b>

CAGHI SEP. PIT

Date Remediation Sta	rted: Date Completed:9/21/98
Remediation Method:	A subject to the stands 40
ck all appropriate	Landfarmed Insitu Bioremediation
	Other
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite X Offsite
General Description of	of Remedial Action:
THEREFORE NO	THE ANALYSIS WAS CONDUCTED. RISK ASSESSED.
Groundwater Encount	ered: No 🔀 Yes Depth
Closure Sampling:	Sample location see Attached Documents
attach sample results	Sample depth 3' (EAST SIDELALL)
locations and depths)	Sample date $\frac{9/21/98}{}$ Sample time $\frac{1000}{}$
	Sample Results
	Soil: Benzene (ppm) Water: Benzene (ppb)
	Total BTEX (ppm) Toluene (ppb)
	Field Headspace (ppm) 458 Ethylbenzene (ppb)
	TPH (ppm) Total Xylenes (ppb)
Groundwater Sample	: Yes No X (If yes, attach sample results)
KNOWLEGE AND B	
DATE	9/z1/98PRINTED NAME Jeffrey C. Blagg, P.E.# /1607
SIGNATURE Ju	My C. Slogg AND TITLE President
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES _	NO (REASON)
SIGNED:	- C Mand DATE: 10-1-98

3003906017 LOCATION NO CA64L BLAGG ENGINEERING, INC. CLIENT: CONOCO P.O. BOX 87, BLOOMFIELD, NM 87413 C.D.C. ND: \_\_\_\_\_ (505) 632-1199 FIELD REPORT: CLOSURE VERIFICATION PAGE No: \_\_\_ of \_\_! CATE STARTED: 9/21/98 LOCATION: NAME: TICARULA BR E WELL #: 10 PIT: SEP. CATE FINISHED: \_\_ QUAD/UNIT: E SEC: 18 TWP: 25N RNG: YW PM: PM: CNTY: RP ST: NM OTR/FOOTAGE: 1650 FNL 990 FWL CONTRACTOR: JUC EXCAVATION APPROX. 13 FT. x 15 FT. x 6 FT. DEEP. CUBIC YARDAGE: 40 DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFRRM LAND USE: RANGE LEASE: CONFERCT T64 FORMATION: PC FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 14 FT. 548 FROM WELLHEAD.

DEPTH TO GROUNDWATER. >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000' NMOCD PANEING SCORE: \_\_\_\_ NMOCD TPH CLOSURE STD: \_\_\_\_ PPM ✓ PIT ABANDONED \_ STEEL TANK INSTALLEI SOIL AND EXCAVATION DESCRIPTION: \_ FIBERGLASS TANK INSTALLED EXCAURTION CONSISTED OF MOSTLY BEDROCK (SANDSTONE) LARYING COLOR FLOM DK. YELL. ORANGE TO BLACK, PREDOMINATELY IT TO MED. GRAY VERY HARD, STAINED THROUGHOUT ENTIRE EXCAUATION HE ODOR DETECTED WIND EXCAUATION STRONG HE ODOR IN ALL SUM SAMPLES EXCEPT PIT BOTTOM ALL SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO TIPH ANALYSIS WAS CONDUCTED. EXCAUATION | RISK 135555ED MOSTLY めにいくりり入 FIELD 418.1 CALCULATIONS WEIGHT (q) ml. FREON DILUTION READING CALC. ppm SAMPLE I.D. LAB No: TIME SCALE 1000 OVM PIT PERIMETER N RESULTS FIELD HEADSPACE PID (ppm) SAMPLE 209.7 10 458 444 SEP *りをひとつこ)*く (22) LAB SAMPLES ız, TRAVEL NOTES: CALLOUT: 9/18/98 - AFTER. ONSITE: 9/21/98 - MERN -

6Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla BR E #10

Unit E, Sec. 18, T25N, R4W Separator Pit Pictured Cliffs

Non Vulnerable > 1000 ft.

> 1000 ft.

### RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 6 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- Past production fluids were contained locally by a relatively shallow sandstone bedrock located 6
  feet below grade. Groundwater levels located on or close to the well pad are estimated to be at
  a much greater depth below sandstone bedrock.
- Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- Well site located within the <u>non-vulnerable area</u> and is approximately 0.36 miles northwest of the nearest vulnerable area boundary (Gonzales Canyon wash).

(Refer to <u>Lapis Point Quadrangle</u>, <u>New Mexico</u> - <u>Rio Arriba County</u>, 7.5 <u>Minute Series</u> (<u>Topographic</u>), 1963, (vulnerable area boundary developed by Mr. William C. Olson, <u>Hydrogeologist</u>, <u>Environmental Bureau</u>, <u>New Mexico Oil Conservation Division</u>).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). CONOCO requests pit closure approval on this location.

CAGYI

# JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

## ON-SITE SOIL REMEDIATION REPORT

- · · · · · · · · · · · · · · · · · · ·	<b>Telephone:</b> (505) 324-5884								
Address: 3315 Bloomfield Hwy., Farming									
Facility or Well Name: JICARILLA BR	E #10								
Location: Unit or Qtr/Qtr Sec E Sec 18 T	250 R4W County RIO ARRIGA								
Land Type: RANGE									
Date Remediation Started: 9/z, 98  Remediation Method: Landfarmed	Date Completed: 4/19/9899 71V  Approx. cubic yards 40								
Composted	pp								
•									
Pepth To Groundwater: (pts.)	Final Closure Sampling:								
Distance to an Ephemeral Stream (pts.)	Sampling Date: 4/15/99 Time: 2955								
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results:  Field Headspace (ppm)								
Wellhead Protection Area: (pts.)	TPH (ppm) 1.3 Method 8015								
Distance To SurfaceWater: (pts.)	Other								
RANKING SCORE (TOTAL POINTS):									
I HEREBY CERTIFY THAT THE INFORMATION ABOV KNOWLEGE AND BELIEF	/E IS TRUE AND COMPLETE TO THE BEST OF MY								
DATE 4/19/99 PRINTED	NAME Jeffrey C. Blagg, P.E. #11607								
SIGNATURE Jeffy C. Blogg	AND TITLEPresident								
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.									
APPROVED: YES X NO (REASON)									
SIGNED: DAT	TE: 6-3-99								

BLAGG ENGINEERING, INC. CLIENT \_ CONOCO LOCATION NO: CAGH! P.O. BOX 87, BLOOMFIELD, NM 87413 C. D.C. ND: 6651 (505) 632-1199FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION DATE STARTED: 4/15/99 1014 DAI NAME TRARINA BR & WELL #: 10 PITS: 5EP DATE FINISHED: QUAD/UNIT: E SEC: 18 TWP: 750 RNG: 4W PM: NM CNTY: RA ST: NM ENV:RONMENTAL STRIFFORTAGE: 500 4 200 4 CONTRACTOR: SOL PEMEDIATION: APPROX. CUBIC YARDAGE: 40 REMEDIATION SYSTEM: LANDFARM LIFT DEPTH (ft): RONGE LAND USE: FELD ', ITES & REMARKS; TEFTH TO GREUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1600 NMIII F44: INS SOURE: \_\_\_\_ NMUCD TPH CLUSURE STD: 5006 PPM SOIL MOSTLY PALE YELL DRANGE TO DK. OLIVE GRAY SAND WITH SANDSTONE BEDROCK FRAGMENTS, NOW COHESIVE SUGHTLY MOIST, FIRM SAMPLING UFPTHS RANGE FROM 6 TO 12 INCHES, NO APPARENT STRINING OBSERVED NO APPARENT HC ODUR DETECTED & ANY OF THE SAMPLING PTS., COLLECTED 5 PT. COMPOSITE TAMPLE FOR LAB ANALYSIS. CLOSED FIELD 418.1 CALCULATIONS SAMP. TIME SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. Spm SKETCH/SAMPLE LOCATIONS LAB SAMPLES OVM RESULTS FIELD HEADSPACE PID (ppm) ANALYSIS RESULTS SAMPLE SAMPLE 1.3 0.0 LF -1 LF -1 (8015) 0955 (4) 33 3 (3) LANDEARM HEAD PERIMETE R SCALE (BERMED)

 ONSITE: 4 / 15 /99

FT



### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

	DI (CONOCO	Proiect #:	403410
Client:	Blagg / CONOCO	•	04-19-99
Sample ID:	LF - 1	Date Reported:	•
Laboratory Number:	F044	Date Sampled:	04-15-99
		Date Received:	04-16-99
Chain of Custody No:	6651		04-16-99
Sample Matrix:	Soil	Date Extracted:	
•	Cool	Date Analyzed:	04-17-99
Preservative:	<del></del>	Analysis Requested:	8015 TPH
Condition:	Cool and Intact	Analysis Requested.	30.0

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	0.8	0.1
Total Petroleum Hydrocarbons	1.3	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Jicarilla BR E #10 Landfarm. 5 Pt. Composite.

Avenue R. Gjenen Analyst Review D. Spinde-

# CHAIN OF CUSTODY RECORD

				Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)						LF-1 4/15/99 0955		Sample No./ Sample Sample	NTV	Sampler:	BUMBG/ CONOCO	Client / Project Name
												4044		Lab Number	04034-0	Client No.	JICARILLA	Project Location
Farmington, No. (505)	5796 U.S.		EOVIDOTECH I			1/16/99 0800	•					3012		Sample Matrix	024		BR E #10	LANDEREM
(505) 632-0615	5796 U.S. Highway 64	[ ] - -	ECT C	Received by: (Signature)	Received by: (Signature)	Hecenved by: (Signature)							- \	Con	o. of tainer			
			כֿ	lure)	ture) t	K. Wena										-		ANALYSIS / PARAMETERS
Cool - Ice/Blue Ice	Received Intact		Sample Receipt			411	Date				PRESERV.		~ P C			Remarks		RAMETERS
2	4	Y Z	ceipt			8	te Time				- دەەك		Composite			arks		